

**Claims**

1. Method to synthesize 8-Prenylnaringenin comprising the steps:
  - a. diacetylation of naringenin
  - 5 b. prenylation using tributylphosphine and diisopropylazodicarboxylate
  - c. rearrangement of prenyl side chain using Europium(III)-fod and
  - d. solvolysis using  $K_2CO_3$  in methanol/ $H_2O$  whereby said steps do not include a chromatography.
- 10 2. 8-Prenylnaringenin preparation produced by the method according to claim 1
3. Use of 8-Prenylnaringenin for the production of a medicament for the prevention and treatment of hormone dependent osteoporosis of peri- and
- 15 15 postmenopausal symptoms in women wherein the 8-Prenylnaringenin preparation used for said production is at least 95% pure.
4. Use of 8-Prenylnaringenin according to claim 2 for the production of a medicament for the prevention and treatment of hormone dependent osteoporosis and of peri- and postmenopausal symptoms in women.
- 20 25 5. Use of 8-Prenylnaringenin for the production of a medicament for the prevention and treatment of hormone dependent osteoporosis of peri- and postmenopausal symptoms in women wherein the effect of said medicament on uterus proliferation is less than 1/5 of that of estradiol and the doses of 8-Prenylnaringenin and estradiol which are compared are equieffective on bone mass reduction